

UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P O Box 1450 Alexandra, Virginia 22313-1450 www.waybi.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/531,829	04/18/2005	Jean-Ho Song	21C-0191	2222
23413 7550 03/21/2908 CANTOR COLBURN, LLP 20 Church Street			EXAMINER	
			NGUYEN, DUNG T	
22nd Floor Hartford, CT (06103		ART UNIT	PAPER NUMBER
, , , , ,			2871	
			MAIL DATE	DELIVERY MODE
			03/21/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/531.829 SONG ET AL. Office Action Summary Examiner Art Unit Duna Nauven 2871 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 03 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 17 December 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-28 is/are pending in the application. 4a) Of the above claim(s) 15-22 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-14 and 23-28 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 4/18/05

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

Application/Control Number: 10/531,829 Page 2

Art Unit: 2871

DETAILED ACTION

Election/Restrictions

 Applicant's election without traverse of invention I (claims 1-14 and 23-28) in the reply filed on 12/17/2007 is acknowledged.

Specification

- The lengthy specification has not been checked to the extent necessary to determine the presence of all possible minor errors. Applicant's cooperation is requested in correcting any errors of which applicant may become aware in the specification.
- 3. The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: the first aspect ratio of 1:3 and the second aspect ratio.

Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all
 obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 1-14 and 23-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant's submitted prior art, Kim et al., WO 01/45283, in view of Kikkawa et al., US 6,879,359.

Application/Control Number: 10/531,829 Page 3

Art Unit: 2871

Regarding the above claims, Kim et al. disclose a liquid crystal display (LCD) device (figures 4-6) comprising:

. a first substrate (11) having a plurality of unit cells (figure 6), each cell including a sensor thin film transistor (TFT) (12), a storage device (14/15/16) and a first switch TFT (13), a second insulating layer (see figure 5). It is noted that a data reading part and a first gate driving part (fingerprint reading section 100 and control section 400) inherently formed over the first substrate to function/control the sensor TFT and the switch TFT;

 an LCD panel inherently having a second substrate and a liquid crystal layer attaching to the first substrate (figure 4);

- . a sensor output signal line (output n/n+1);
- . a light shielding layer (13-sh)

Kim et al. do not explicitly disclose the LCD panel having first transparent electrode, a second substrate having a second transparent electrode, a color filter and a second switch TFT; Kikkawa et al. do disclose an LCD (figure 3) having first transparent electrode (34), a second substrate (21) having a second transparent electrode (31), a color filter (30) and a second switch TFT (22/26/27), a first insulating layer (32). In addition, a data driver part and a second gate driver part (control section 400) would be formed over the second substrate to control the switch TFT. Therefore, it would have been obvious to one skilled in the art at the time of the invention was made to combine the Kikkawa et al. LCD panel into the Kim et al. fingerprint terminal in order to obtain an LCD device having both a data display function and a fingerprint capture function.

Conclusion

 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dung Nguyen whose telephone number is 571-272-2297. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on 571-272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DN 03/17/2008 /Dung T. Nguyen/ Dung Nguyen Primary Examiner Art Unit 2871